

Project Summary

I. INTRODUCTION

This source has applied for a Renewal Clean Air Act Permit Program (CAAPP) operating permit for its existing operation. The CAAPP is the program established in Illinois for the operating permits for significant stationary sources required by the federal Clean Air Act, as amended in 1990. The conditions in a CAAPP permit are enforceable by both the Illinois Environmental Protection Agency (Illinois EPA) and the USEPA.

Sovereign Packaging Group, Inc. is located at 245 East Kehoe Boulevard, Carol Stream, DuPage County. The source manufactures blister package adhesives, U.V. Curable Coatings, Pressure sensitive adhesives, hot melt adhesives and other allied products. The production of these products primarily involves mixing and blending of raw materials either under vacuum or atmospheric conditions with and without addition of heat. Typical raw materials utilized are resins, wax, water and various organic solvents such as toluene, isopropyl alcohol etc. Low vapor pressure polymeric isocyanates, and lesser amounts of toluene diisocyanate and methylene bisphenyl isocyanate may be used in the production of adhesives and coatings. The mixers are controlled by condensers. In addition, the plant has storage tanks for organic solvents.

II. EMISSION UNITS

Significant emission units at this source are as follows:

Emission Unit	Description	Date Constructed	Emission Control Equipment
Unit 01	Mixer (M-3): Mixer for mixing & Blending	1969	Condenser (C-3)
	Mixer (M-4): Mixer for mixing & Blending	1969	Condenser (C-4)
	Mixer (M-5): Mixer for mixing & Blending	1969	Condenser (C-5)
	Mixer (M-8): Mixer for mixing & Blending	1980	Condenser (C-8)

	Mixer (M-9): Mixer for mixing & Blending	1980	Condenser (C-9)
	Mixer (M-10): Mixer for mixing & Blending	1980	Condenser (C-10B)
	Mixer (M-11): Mixer for mixing & Blending	1980	Condenser (C-11)
	Mixer (M-12): Mixer for mixing & Blending	1985	Condenser (C-12)
	Mixer (M-13): Mixer for mixing & Blending	1991	Condenser (C-13)
	Mixer (M-15): Mixer for mixing & Blending	1991	Condenser (C-15)
	Storage Tanks (T-31, T-32): Each 1,650 gallon capacity tank	1985	None

Emission Unit	Description	Date Constructed	Emission Control Equipment
Unit 01 (cont.)	Storage Tanks (T-33, T-34, T-35, T-36): Each 1,450 gallon capacity tank	1996	None
Unit 02	Storage Tanks (T-43, T-44, T-45, T-46: Each 10,000 gallon capacity tank	1998	None

III. EMISSIONS

This source is required to have a CAAPP permit since it is a major source of emissions.

For purposes of fees, the source is allowed the following emissions:

Permitted Emissions of Regulated Pollutants

Pollutant	Tons/Year
Volatile Organic Material (VOM)	75.53
Sulfur Dioxide (SO ₂)	---
Particulate Matter (PM)	---
Nitrogen Oxides (NO _x)	---
HAP, not included in VOM or PM	---
TOTAL	75.53

This permit is a combined Title I/CAAPP permit that may contain terms and conditions which address the applicability, and compliance if determined applicable, of Title I of the Clean Air Act and regulations promulgated thereunder, including 40 CFR 52.21 - federal Prevention of Significant Deterioration (PSD) and 35 IAC Part 203 - Major Stationary Sources Construction and Modification. Any such terms and conditions are identified within the permit by T1, T1R, or T1N. The source has requested that the Illinois EPA establish or revise such conditions in a Title I permit, consistent with the information provided in the CAAPP application. Any conditions established in a construction permit pursuant to Title I and not revised or deleted in this permit, remain in effect pursuant to Title I provisions until such time that the Illinois EPA revises or deletes them.

IV. APPLICABLE EMISSION STANDARDS

All emission sources in Illinois must comply with the Illinois Pollution Control Board's emission standards. The Board's emission standards represent the basic requirements for sources in Illinois.

All emission sources in Illinois must comply with the federal New Source Performance Standards (NSPS). The Illinois EPA is administering NSPS in Illinois on behalf of the United States EPA under a delegation agreement.

All emission sources in Illinois must comply with the federal National Emission Standards for Hazardous Air Pollutants (NESHAP). The Illinois EPA is administering NESHAP in Illinois on behalf of the United States EPA under a delegation agreement.

V. PROPOSED PERMIT

CAAPP

A CAAPP permit contains all conditions that apply to a source and a listing of the applicable state and federal air pollution control regulations that are the origin of the conditions. The permit also contains emission limits and appropriate compliance procedures. The appropriate compliance procedures may include inspections, work practices, monitoring, record keeping, and reporting to show compliance with these requirements. The Permittee must carry out these procedures on an on-going basis.

Title I

A combined Title I/CAAPP permit contains terms and conditions established by the Illinois EPA pursuant to authority found in Title I provisions, e.g., 40 CFR 52.21 - federal Prevention of Significant Deterioration (PSD) and 35 IAC Part 203 - Major Stationary Sources Construction and Modification. Notwithstanding the expiration date on the first page of the permit, the Title I conditions remain in effect pursuant to Title I provisions until the Illinois EPA deletes or revises them in accordance with Title I procedures.

Because this source is located in the Chicago ozone non-attainment area and emits volatile organic material (VOM), the permit includes conditions to implement the Emissions Reduction Market System (ERMS). The ERMS is a market-based program designed to reduce VOM emissions from stationary sources to contribute to reasonable further progress toward attainment, as further described in Section 6.0 of the permit. The permit contains the Illinois EPA's determination of the source's baseline emissions and allotment of trading units under the ERMS, and identifies units not subject to further reductions. The permit also provides that the source must begin to operate under the ERMS following the initial issuance of allotment trading units to the source. This will occur for the 2000 seasonal allotment period (rather than the 1999 season as originally intended by the ERMS) due in part to delays in the initial issuance of CAAPP Permits. These delays, which have occurred nationally, are attributable to a variety of causes including the unforeseen complexity of processing these permits and gaps in national guidance. Even though operation under the ERMS will not officially start until the 2000 seasonal allotment period, detailed recordkeeping and reporting of seasonal emissions was required beginning in 1998, which will document emissions reductions achieved by sources in 1999 in preparation for the ERMS.

VI. REQUEST FOR COMMENTS

It is the Illinois EPA's preliminary determination that this source's permit application meets the standards for issuance of a CAAPP permit. The Illinois EPA is therefore proposing to issue a CAAPP permit, subject to the conditions proposed in the draft permit.

Comments are requested on this proposed action by the Illinois EPA and the proposed conditions on the draft permit. If substantial public interest is shown in this matter, the Illinois EPA will consider holding a public hearing in accordance with 35 Ill. Adm. Code Part 166.